

Figure 1A

10 30 50
 GCGGGCTGCAGTCGCGGCGGCTTCTCCCCGCTGGGCGGCCGCGCCGTGGGCAGGTGCT
 70 90 110
 GAGCGCCCCTAGAGCCTCCCTTGCCGCTCCCTCCTCTGCCCCGCCGAGCAGTGACAT
 130 150 170
 GGGGTGTTGGAGGTAGATGGGCTCCCCGGGGAGGCGGCGGTGGATGCGGCGCTGGGC
 190 210 230
 AGAAGCAGCCGCGGATTCCAGCTGCCCCGCGCGCCCCGGGCGCCCCCTGCAGTCCCCGGT
 250 270 290
 TCAGCCATGGGGACCTCTCCGAGCAGCAGCACCGCCCTCGCCTCCTGCAGCCGCATCGCC
 M G T S P S S S T A L A S C S R I A
 310 330 350
 CGCCGAGCCACAGCCACGATGATCGCGGGCTCCCTTCTCCTGCTTGGATTCTTAGCACC
 R R A T A T M I A G S L L L L G F L S T
 370 390 410
 ACCACAGCTCAGCCAGAACAGAAAGGCCTCGAATCTCATTGGCACATACGCCCATGTTGAC
 T T A Q P E Q K A S N L I G T Y R H V D
 430 450 470
 CGTGCCACCGGCCAGGTGCTAACCTGTGACAAGTGTCCAGCAGGAACCTATGTCTCTGAG
 R A T G Q V L T C D K C P A G T Y V S E
 490 510 530
 CATTGTACCAACACAAGCCTGCGCGTCTGCAGCAGTTGCCCTGTGGGGACCTTTACCAGG
 H C T N T S L R V C S S C P V G T F T R
 550 570 590
 CATGAGAATGGCATAGAGAAATGCCATGACTGTAGTCAGCCATGCCCATGGCCAATGATT
 H E N G I E K C H D C S Q P C P W P M I
 610 630 650
 GAGAAATTACCTTGTGCTGCCTTGACTGACCGAGAATGCACTTGCCCACCTGGCATGTTG
 E K L P C A A L T D R E C T C P P G M F
 670 690 710
 CAGTCTAACGCTACCTGTGCCCCCATACGGTGTGTCTGTGGGTTGGGGTGTGCGGAAG
 Q S N A T C A P H T V C P V G W G V R K
 730 750 770
 AAAGGGACAGAGACTGAGGATGTGCGGTGTAAGCAGTGTGCTCGGGGTACCTTCTCAGAT
 K G T E T E D V R C K Q C A R G T F S D
 790 810 830
 GTGCCTTCTAGTGTGATGAAATGCAAAGCATAACAGACTGTCTGAGTCAGAACCTGGTG
 V P S S V M K C K A Y T D C L S Q N L V
 850 870 890
 GTGATCAAGCCGGGGACCAAGGAGACAGACAACGTCTGTGGCACACTCCCGTCCTTCTCC
 V I K P G T K E T D N V C G T L P S F S
 910 930 950
 AGCTCCACCTCACCTTCCCCTGGCACAGCCATCTTTCCACGCCCTGAGCACATGGAAACC
 S S T S P S P G T A I F P R P E H M E T
 970 990 1010
 CATGAAGTCCCTTCTCCACTTATGTTCCCAAGGCATGAACTCAACAGAATCCAACCTCT
 H E V P S S T Y V P K G M N S T E S N S

200707240000

1. *Phragmites australis* (Cav.) Trin. ex Steud.
 2. *Scirpus americanus* (L.) Link.
 3. *Scirpus setaceus* (L.) Link.
 4. *Scirpus robustus* (L.) Link.
 5. *Scirpus patens* (L.) Link.
 6. *Scirpus hololepis* (L.) Link.
 7. *Scirpus cespitosus* (L.) Link.
 8. *Scirpus eriopodus* (L.) Link.
 9. *Scirpus americanus* (L.) Link.
 10. *Scirpus setaceus* (L.) Link.
 11. *Scirpus robustus* (L.) Link.
 12. *Scirpus patens* (L.) Link.
 13. *Scirpus hololepis* (L.) Link.
 14. *Scirpus cespitosus* (L.) Link.
 15. *Scirpus eriopodus* (L.) Link.
 16. *Scirpus americanus* (L.) Link.
 17. *Scirpus setaceus* (L.) Link.
 18. *Scirpus robustus* (L.) Link.
 19. *Scirpus patens* (L.) Link.
 20. *Scirpus hololepis* (L.) Link.
 21. *Scirpus cespitosus* (L.) Link.
 22. *Scirpus eriopodus* (L.) Link.
 23. *Scirpus americanus* (L.) Link.
 24. *Scirpus setaceus* (L.) Link.
 25. *Scirpus robustus* (L.) Link.
 26. *Scirpus patens* (L.) Link.
 27. *Scirpus hololepis* (L.) Link.
 28. *Scirpus cespitosus* (L.) Link.
 29. *Scirpus eriopodus* (L.) Link.
 30. *Scirpus americanus* (L.) Link.
 31. *Scirpus setaceus* (L.) Link.
 32. *Scirpus robustus* (L.) Link.
 33. *Scirpus patens* (L.) Link.
 34. *Scirpus hololepis* (L.) Link.
 35. *Scirpus cespitosus* (L.) Link.
 36. *Scirpus eriopodus* (L.) Link.
 37. *Scirpus americanus* (L.) Link.
 38. *Scirpus setaceus* (L.) Link.
 39. *Scirpus robustus* (L.) Link.
 40. *Scirpus patens* (L.) Link.
 41. *Scirpus hololepis* (L.) Link.
 42. *Scirpus cespitosus* (L.) Link.
 43. *Scirpus eriopodus* (L.) Link.
 44. *Scirpus americanus* (L.) Link.
 45. *Scirpus setaceus* (L.) Link.
 46. *Scirpus robustus* (L.) Link.
 47. *Scirpus patens* (L.) Link.
 48. *Scirpus hololepis* (L.) Link.
 49. *Scirpus cespitosus* (L.) Link.
 50. *Scirpus eriopodus* (L.) Link.
 51. *Scirpus americanus* (L.) Link.
 52. *Scirpus setaceus* (L.) Link.
 53. *Scirpus robustus* (L.) Link.
 54. *Scirpus patens* (L.) Link.
 55. *Scirpus hololepis* (L.) Link.
 56. *Scirpus cespitosus* (L.) Link.
 57. *Scirpus eriopodus* (L.) Link.
 58. *Scirpus americanus* (L.) Link.
 59. *Scirpus setaceus* (L.) Link.
 60. *Scirpus robustus* (L.) Link.
 61. *Scirpus patens* (L.) Link.
 62. *Scirpus hololepis* (L.) Link.
 63. *Scirpus cespitosus* (L.) Link.
 64. *Scirpus eriopodus* (L.) Link.
 65. *Scirpus americanus* (L.) Link.
 66. *Scirpus setaceus* (L.) Link.
 67. *Scirpus robustus* (L.) Link.
 68. *Scirpus patens* (L.) Link.
 69. *Scirpus hololepis* (L.) Link.
 70. *Scirpus cespitosus* (L.) Link.
 71. *Scirpus eriopodus* (L.) Link.
 72. *Scirpus americanus* (L.) Link.
 73. *Scirpus setaceus* (L.) Link.
 74. *Scirpus robustus* (L.) Link.
 75. *Scirpus patens* (L.) Link.
 76. *Scirpus hololepis* (L.) Link.
 77. *Scirpus cespitosus* (L.) Link.
 78. *Scirpus eriopodus* (L.) Link.
 79. *Scirpus americanus* (L.) Link.
 80. *Scirpus setaceus* (L.) Link.
 81. *Scirpus robustus* (L.) Link.
 82. *Scirpus patens* (L.) Link.
 83. *Scirpus hololepis* (L.) Link.
 84. *Scirpus cespitosus* (L.) Link.
 85. *Scirpus eriopodus* (L.) Link.
 86. *Scirpus americanus* (L.) Link.
 87. *Scirpus setaceus* (L.) Link.
 88. *Scirpus robustus* (L.) Link.
 89. *Scirpus patens* (L.) Link.
 90. *Scirpus hololepis* (L.) Link.
 91. *Scirpus cespitosus* (L.) Link.
 92. *Scirpus eriopodus* (L.) Link.
 93. *Scirpus americanus* (L.) Link.
 94. *Scirpus setaceus* (L.) Link.
 95. *Scirpus robustus* (L.) Link.
 96. *Scirpus patens* (L.) Link.
 97. *Scirpus hololepis* (L.) Link.
 98. *Scirpus cespitosus* (L.) Link.
 99. *Scirpus eriopodus* (L.) Link.
 100. *Scirpus americanus* (L.) Link.

1030 1050 1070
TCTGCCTCTGTGTAGACCAAAGGTACTGAGTAGCATCCAGGAAGGGACAGTCCCTGACAAC
S A S V R P K V L S S I Q E G T V P D N
1090 1110 1130
ACAAGCTCAGCAAGGGGGAAGGAAGACGTGAACAAGACCCTCCCAAACCTTCAGGTAGTC
T S S A R G K E D V N K T L P N L Q V V
1150 1170 1190
AACCACCAGCAAGGCCCCACCACAGACACATCCTGAAGCTGCTGCCGTCCATGGAGGCC
N H Q Q G P H H R H I L K L L P S M E A
1210 1230 1250
ACTGGGGGCGAGAAGTCCAGCACGCCCATCAAGGGCCCCAAGAGGGGACATCCTAGACAG
T G G E K S S T P I K G P K R G H P R Q
1270 1290 1310
AACCTACACAAGCATTGACATCAATGAGCATTGTCCTGGATGATTGTGCTTTTCCTG
N L H K H F D I N E H L P W M I V L F L
1330 1350 1370
CTGCTGGTGTCTGTGGTGATTGTGGTGTGCAGTATCCGGAAAAGCTCGAGGACTCTGAAA
L L V L V V I V V C S I R K S S R T L K
1390 1410 1430
AAGGGGCCCGGCAGGATCCCAGTGCCATTGTGAAAAGGCAGGGCTGAAGAAATCCATG
K G P R Q D P S A I V E K A G L K K S M
1450 1470 1490
ACTCCAACGCAGAACCGGGAGAAATGGATCTACTACTGCAATGGCCATGGTATCGATATC
T P T Q N R E K W I Y Y C N G H G I D I
1510 1530 1550
CTGAAGCTTGTAGCAGCCCAAGTGGGAAGCCAGTGGAAGATATCTACTAGTTTCTTTGCG
L K L V A A Q V G S Q W K D I Y Q F L C
1570 1590 1610
AATGCCAGTGAGAGGGAGGTTGCTGCTTTCTCCAATGGGTACACAGCCGACCACGAGCGG
N A S E R E V A A F S N G Y T A D H E R
1630 1650 1670
GCCTACGCAGCTCTGCAGCACTGGACCATCCGGGGCCCCGAGGCCAGCCTCGCCCAGCTA
A Y A A L Q H W T I R G P E A S L A Q L
1690 1710 1730
ATTAGCGCCCTGCGCCAGCACCGGAGAAACGATGTTGTGGAGAAGATTTCGTGGGCTGATG
I S A L R Q H R R N D V V E K I R G L M
1750 1770 1790
GAAGACACCACCCAGCTGGAAACTGACAAACTAGCTCTCCCGATGAGCCCCAGCCCGCTT
E D T T Q L E T D K L A L P M S P S P L
1810 1830 1850
AGCCCGAGCCCATCCCCAGCCCCAACGCGAAACTTGAGAATTCCGCTCTCCTGACGGTG
S P S P I P S P N A K L E N S A L L T V
1870 1890 1910
GAGCCTTCCCCACAGGACAAGAACAAGGGCTTCTTCGTGGATGAGTCGGAGCCCCCTTCTC
E P S P Q D K N K G F F V D E S E P L L
1930 1950 1970
CGCTGTGACTCTACATCCAGCGGCTCCTCCGCGCTGAGCAGGAACGGTTCCTTTATTACC
R C D S S T S S G S S A L S R N G S F I T

THE UNIVERSITY OF CHICAGO

1990										2010										2030									
AAAGAAAAGAAGGACACAGTGTTCGCGCAGGTACGCCTGGACCCCTGTGACTTGCAGCCT																													
K E K K D T V L R Q V R L D P C D L Q P																													
2050										2070										2090									
ATCTTTGATGACATGCTCCACTTTCTAAATCCTGAGGAGCTGCGGGTGATTGAAGAGATT																													
I F D D M L H F L N P E E L R V I E E I																													
2110										2130										2150									
CCCCAGGCTGAGGACAAACTAGACCGGCTATTTCGAAATTATTGGAGTCAAGAGCCAGGAA																													
P Q A E D K L D R L F E I I G V K S Q E																													
2170										2190										2210									
GCCAGCCAGACCCCTCCTGGACTCTGTATTATAGCCATCTTCCTGACCTGCTGTAGAACATA																													
A S Q T L L D S V Y S H L P D L L *																													
2230										2250										2270									
GGGATACTGCATTCTGGAAATTACTCAATTTAGTGGCAGGGTGGTTTTTTTAAATTTTCTTC																													
TGTTTTCTGATTTTTTGTGTTTGGGGTGTGTGTGTGTGTTTGTGTGTGTGTGTGTGTGTGT																													
2350										2370										2390									
GTGTGTGTGTGTGTGTGTGTTTAAACAGAGAATATGCCAGTGCCTTGAGTTCTTTCTCTCC																													
2410										2430										2450									
TTCTCTCTCTCTTTTTTTTTTTTAAATAACTCTTCTGGGAAGTTGGTTTATAAGCCTTTTGCC																													
2470										2490										2510									
AGGTGTAAGTGTGTGAAATACCCACCACTAAAGTTTTTTTAAAGTTCCATATTTCTCCAT																													
2530										2550										2570									
TTTGCCTTCTTATGTATTTTCGAGATTATTCTGTGCACTTTAAATTTACTTAACTTACCA																													
2590										2610										2630									
TAAATGCAGTGTGACTTTTCCACACACTGGATTGTGAGGCTCTTAACTCTTAAAGTA																													
2650										2670										2690									
TAATGGCATCTTGTGAATCCTATAAGCAGTCTTTATGTCTCTTAACATTCACACCTACTT																													
2710										2730										2750									
TTTAAAAACAAATATTATTACTATTTTTATTATTGTTTGTCTTTATAAAATTTTCTTAAA																													
2770										2790										2810									
GATTAAGAAAATTTAAGACCCATTGAGTTACTGTAATGCAATTCAACTTTGAGTTATCT																													
2830										2850										2870									
TTTAAATATGTCTTGTATAGTTTCATATTCATGGCTGAAACTTGACCACACTATTGCTGAT																													
2890										2910										2930									
TGTATGGTTTTTACCTGGACACCGTGTAGAATGCTTGATTACTTGTACTCTTCTTATGCT																													
2950										2970										2990									
AATATGCTCTGGGCTGGAGAAATGAAATCCTCAAGCCATCAGGATTTGCTATTTAAGTGG																													
3010										3030										3050									
CTTGACAACCTGGGCCACCAAAGAACTTGAACCTTCACCTTTTAGGATTTGAGCTGTTCTGG																													
3070										3090										3110									
AACACATTTGCTGCACTTTGGAAAGTCAAATCAAGTGCCAGTGGCGCCCTTTCCATAGAG																													
3130										3150										3170									
AATTTGCCAGCTTTGCTTTTAAAGATGTCTTGTGTTTTTATATACATAATCAATAGGT																													
3190										3210										3230									
CCAATCTGCTCTCAAGGCCTTGGTCTGGTGGGATTCCTTCACCAATTACTTTAATTAAA																													
3250										3270										3290									
AATGGCTGCAACTGTAAGAACCCTTGTCTGATATATTTGCAACTATGCTCCCATTTACAA																													

Figure 1D

```
3310          3330          3350
ATGTACCTTCTAATGCTCAGTTGCCAGGTTCCAATGCAAAGGTGGCGTGGACTCCCTTTG
3370          3390          3410
TGTGGGTGGGGTTTGTGGGTAGTGGTGAAGGACCGATATCAGAAAAATGCCTTCAAGTGT
3430          3450          3470
ACTAATTTATTAATAAACATTAGGTGTTTGTTAAAAAAAAAAAAAAAAAAAAA
```

2007-04-25 14:00

Figure 2

1 MGIWT ---LLPLVLT SVARLSSKSVHAQVTDINSKGLLEL ---RKTVTTPVETQNLLEGLHHDDGQF ---CHRP h Fas
 11 M-GAGATGRA ---MDDPRLLLELLLEGLVSLGGAREAGPTT ---GLYTHSGEC ---CKA h NGR p75
 111 M-GUSTVPD LLEPLVLEL ---LVGIYPSGVI GLVPHLGDRE ---KRD SVCPQ GKVIH ---PQNSI ---CCTK h THER 1
 111 M-GTSPSSSTA LASCRIARRATATMIAGSLLELLELSTTTAQPEQKASHLI GTYRH VDRATGOVLTEDR TR9

63 CPGERKARDCTVNGDPPDCVPCQEGKEYTDKAFSSKCRRCRL ---CDEGHGGLLEVEIH ---CTRTOHTKCRCK h Fas
 47 CHLGEVQAQPCG ---AQTVCEPCCLDSVTFSDVVSATPECPKCTE ---VGLQSMAPCV EADAVCRCA h NGR p75
 62 CHKGTLYLYNDPCPGQD TDGRECESGS ---PTASENHLRCLSCSK ---CKR KENG ---QVEISSCTVDRDTVCGGR h THER 1
 70 CPA GT-YVSEHGT ---HTSLRVCS SC-PVGTFTRHENGIEKCHDCGSPC ---PWP MIEKLPCAAALTDEGCTCP TR9

131 PU ---FFCN ---STVC ---EH ---CDPCTKC ---EHGI --- h Fas
 111 YGYQ ---DETTGRCEACRVCEAGSGGLVFCODKQNTVCEECPPDGTYSDEAHNVDPCLPCTVC ---EDTERQ h NGR p75
 129 KHQYRHYWSENLFQCFNCSLCLNG ---TVHLSCOEKONTVCT ---CHAGFE LRENE ---CVSGS HNG ---KKS LEC h THER 1
 135 PGHFO ---SHAT ---CAPHTVCPVGVGRKKGTE TEDVVRCKQCARGTFSNDVPSVHKKAYTDCLSQNLVV TR9

154 IREC ---TLTSHIT --- ---KCKEEGSRSHL --- --- h Fas
 177 LRECTRWADAECBEI PGRWITRSTPDEGSDSTA FSTQEP EAPPEQD LIASTVAGVVTVMGSSQPVVTRG h NGR p75
 192 TRGLLPQIENV --- ---KGTEDSGTTLPL --- --- h THER 1
 200 INPGTKETDNVCGTLPSESSSTTPSPGTAIFPRPEHMETHEVPSESTYVPKCMNSTESHSSARVRPKVLSSTR9

175 --- ---GWL-C ---LL-LPLI --- --- h Fas
 247 TTDNLIIVYCRILAAVVVGLVAYIAFKRWNSCKQNKQGANRPVHQTRPPEGEKLSHDSGISVDS --- h NGR p75
 216 --- ---LVIFPG-L-C --- ---LSSLLEFI --- --- h THER 1
 270 IQEGTVPDHTSSARGKEDVNKTLPNLQV ---VNHQCGPHHRHILKLETPSM EATGTGEKSSSTPIKGPKR'GH TR9

185 ---PLIV ---EVQKTCRKHKE ---HQGSHESPQ ---LMPE --- h Fas
 312 ---QSLHDQ-QPHTQTA --- ---SGQALK --- ---GDGLYSSLP PAKRE h NGR p75
 231 ---GLMYRYOR --- ---W-RSK --- ---KEGELEGTIT --- ---KPLAPUPS --- h THER 1
 336 PRQHLLHKHEDI NEHLPPMHIVLFLLLVLVIVVCSTIRKSSRTLRKKGPRQDPSAIVEKAGELKKSMPTPTQHRE TR9

219 --- ---TVAINLSDDVLSKYIT --- ---IDSETH EACPVRRALLASWATQDS ---ATL h Fas
 347 --- ---VEKLLHGSAGDTWRHLAGELGYQPEH --- ---SSTYT PGDCPNFAA --- --- h NGR p75
 273 --- ---FSPTPGFTPLGFPSPVPSSTETS --- --- --- h THER 1
 406 KWIYYCNGHGDPLKLVAAQVGSQMKDIYQFTICNASEREVAAF SHGYTADHERAYAAALQHTIRGPEASL TR9

236 --- --- ---IAGVMTLSQV --- --- h Fas
 399 DALALALRRIQRA DLVESL --- ---ADPILATALASDEIPHLQKWE DS AHK PQSLDTU DP h NGR p75
 310 --- ---PRREVAPPYQG --- --- --- h THER 1
 476 AOLISALRQHRBNDVVEKIRGLMEDTTQLETDKLALPHSPSPSPSPSPSPSHNAKLENSALLTVEPSQDK TR9

246 --- ---KGFVRKNGVNEAKIDEIKNDNVQDTAEQKVQLLRHMQHLGKKKEA ---YDTLIKDLK h Fas
 418 --- ---GSE ---STATSP --- --- h NGR p75
 357 ATLYAVVEHVPPLRWKEPVRRLGLSDHEDIDRLQLHGRCLREAAQYSMHATRRRTTPRREATLELLGRVJR h THER 1
 546 NKGFFVDESEPLLRCD --- ---TSSGSSALLSRNGSPITKEKKDVTILRQVRRLDPCDLQPIFD DMLHFLN TR9

300 KANLCTLAERKIQTI --- ---ILKNDTSDSEN SN --- ---FRNEIQSLV h Fas
 427 --- --- --- --- --- h NGR p75
 427 DMDDL LGCL EDEEA --- ---CGPAA --- ---LPPA PSLPR h THER 1
 609 PEEL-RVIEEIPQAEKDDRLLFEITGVKRSQEA SQTLLDSVYSHLPDL --- --- TR9

Figure 3

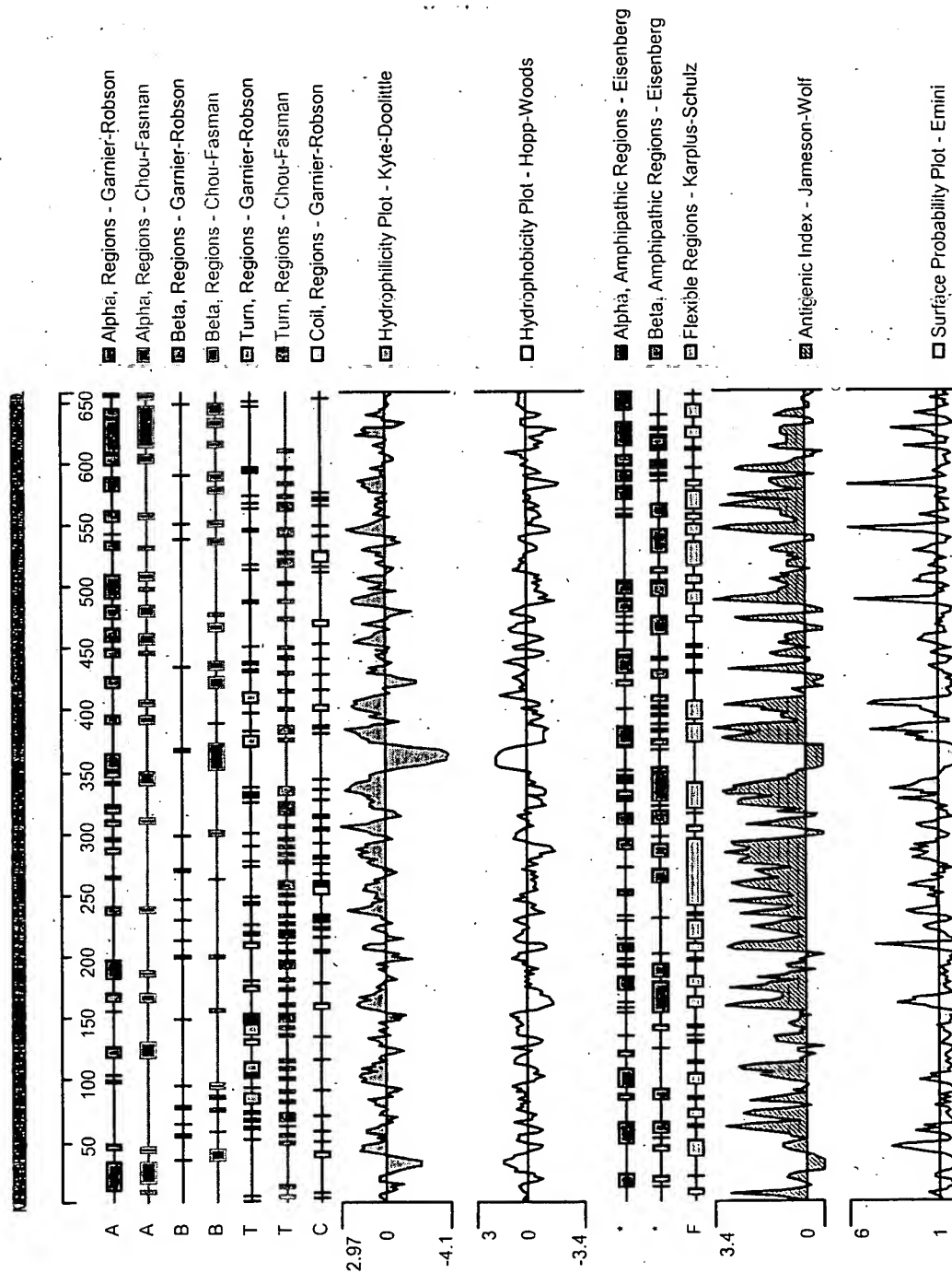


Figure 4A

1 MGTSPSSSTALASCRIARRATATMIAGSLLLLGFLSTTTTAQPEQKASNLIGTYRHVDRATGQVLTCDKC 70
PAGTYVSEHCTNTSLRVCSSCPVGTFTRHENGIEKCHDCSQPCPWPMEIKLPCAALTDRECTCPPGMFQS 140
NATCAPHTVCPVGWGVRRKKGTETEDVRCKQCARGTFSDVPSSVMKCKAYTDCLSQNLVVIKPGTKETDNV 210
CGTLPSSSTSPSPGTAIFPRPEHMETHEVPSSTYVPKGMNSTESNSASVRPKVLSSIQEGTVPDNTS 280
SARGKEDVNKTLPNLQVVNHQQPHRHILKLLPSMEATGGEKSSTPIKGPKRGHPRONLHKHFDINEHL 350
PMMIVLELLLVVIVVCSIRKSSRTLKKGPRQDPSAIVEKAGLKKSMPTQNREKWIYYCNGHGIDILK 420
LVAAQVGSQWKDIYQFLCNASEREVAAFSNGYTADHERAYAAALQHWITIRGPEASLAQLISALRQHRNDV 490
VEKIRGLMEDTTQLETDKLALPMSPLSPSPISPNAKLENSALLTVEPSPQDKNKGFVDESEPLLRC 560
DSTSSGSSALSRNGSFITKEKKDVTVLQRVRLDPCDLQPIFDDMLHLFNPEELRVIEEIPQAEKLDRLFE 630
IIGVKSQEASQTLSDSVYSHLPDLL 655

SECRET

Figure 4B

[illegible]

200710-42574001

Figure 5

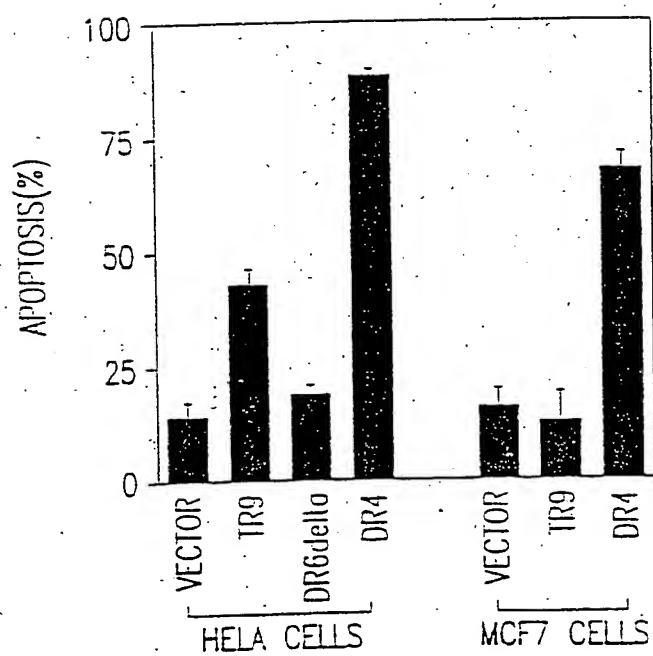


Figure 6

